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19 DECEMBER 2001.

Jeff Lloyd #35,589

Jeff Lloyd, Patent Attorney

Patent Application
Docket No. UF-155CD1
Serial No. 09/070,844

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner	:	Ousama Zaghmout
Art Unit	:	1649
Applicants(s)	:	Robert R. Schmidt, Philip Miller
Serial No.	:	09/070,844
Filed	:	May 1, 1998
For	:	Novel Polypeptides and Polynucleotides Relating to the α- and β-Subunits of Glutamate Dehydrogenases and Methods of Use

Assistant Commissioner for Patents
Washington, D.C. 20231

COMMUNICATION

Sir:

Applicants wish to note for the record that the first complete bacterial GDH sequence was published in 1983: McPherson, M.J., and Wootton, J.C. (1983), "Complete nucleotide sequence of the Escherichia coli gdhA," *Nucleic Acids Research* **11**:5257-5266. The first fungal GDH sequence was published in 1983: Kinnaird, J.H., and Fincham, J.R.S. (1983) "The complete nucleotide sequence of the Neurospora crassa am (NADP-specific glutamate dehydrogenase) gene," *Gene* **26**:253-260.

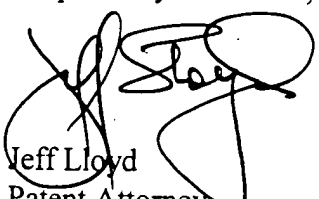
Applicants file herewith a copy of a GENBANK search that lists most or all of the GDH genes publicly known and available as of March 1995, before the priority date of this application.

In view of the foregoing, Applicants believe the claims as currently pending are in condition for allowance, and such action is respectfully requested.

The Commissioner is authorized to charge any fees under 37 C.F.R.§ 1.16 or 1.17 as required by this paper to Deposit Account 19-0065.

Applicants invite the Examiner to call the undersigned if clarification is needed on any of this Communication, or if Examiner believes a telephone interview would expedite the prosecution of the subject application to completion.

Respectfully submitted,



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Gainesville, Florida 32606-6669

JL/gm
Attachment: Copy of GENBANK search

RCCCV1::JWEDWA

JOB 941

GDH.SEARCH;5707

File:	DSA100:[NETUSER.NP]GDH.SEARCH;5707
Owner UIC:	SYSTEM
Account:	OPSYS

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Digital Equipment Corporation

VAXshare Print Server R1.2-EP02 VAX/VMS V5.5-2

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GENGENBANKDISK:[GENBANK]GB_BA.SEQCAT;87

Aspargc	X65511	Anabaena sp. argC gene for N-acetylglutamate semialdehyde dehydroc
Bsargcn	X52834	B.subtilis argC gene for N-acetyl-glutamate-gamma-semialdehyde deh
Cloglud	M65250	C.difficile glutamate dehydrogenase gene, complete cds. 5/91 1,26(
Closgdhg	Z11747	C.symbiosum gdh gene encoding glutamate dehydrogenase. 6/93 1,636b
Ecgdha	X00988	E. coli gdhA gene for NADP-specific glutamate dehydrogenase (EC1.4
Ecoargbch	M21446	E.coli N-acetylglutamate-gamma-semialdehyde dehydrogenase(argC) ar
Ecogdha	J01615	E.coli gdhA gene coding for NADP-specific glutamate dehydrogenase.
Ecogdhak	K02499	E. coli gdhA gene encoding NADP-dependent glutamate dehydrogenase,
Hsgdhagd	X63837	H.salinarium GDHA gene for NADP-dependent glutamate dehydrogenase.
Kpngdhaa	M30538	K.aerogenes glutamate dehydrogenase (gdhA) gene, 5' end. 9/90 480b
Pepglud	M76403	P.asaccharolyticus glutamate dehydrogenase gene, complete cds. 10/
Poybaccsa	L07290	Porphyromonas (Bacteroides) gingivalis NAD-dependent glutamate deh
Pywgdh	M97860	Pyrococcus furiosus glutamate dehydrogenase (gdh) gene, complete c
Ssgdha	X73990	S.shibatae gene for glutamate dehydrogenase. 5/94 1,192bp
Stygdha	M24021	S.typhimurium glutamate dehydrogenase (GDHA) gene, complete cds. 3
Thcgludehy	L19995	Thermococcus litoralis (clone TL211) glutamate dehydrogenase (gdh
Xxgdh	X16399	Gene for glutamate dehydrogenase (EC 1.4.1.4), put. bacterial orig
Xyxg1dh	L19115	Hyperthermophilic archaeobacterial sp. (G1-H) glutamate dehydroger
Xyxg1dha	L19116	Hyperthermophilic Archaeobacterial species (GE5) glutamate dehydrc
Xyxgludeh	L12408	Hyperthermophilic Archaeobacterial sp. glutamate dehydrogenase (gc

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GENGENBANKDISK:[GENBANK]GB_CU.SEQCAT;2

Aspargc	X65511	Anabaena sp. argC gene for N-acetylglutamate semialdehyde dehydroc
Cloglud	M65250	C.difficile glutamate dehydrogenase gene, complete cds. 3/95 1,26(
Mzegd	D49475	Corn mRNA for glutamate dehydrogenase. 3/95 1,621bp
T69765	T69765	yd14c07.s1 Homo sapiens cDNA clone 108204 3' similar to gb:M20867
T70750	T70750	yd14c07.r1 Homo sapiens cDNA clone 108204 5' similar to gb:M20867
T79368	T79368	yd74f05.r1 Homo sapiens cDNA clone 113985 5' similar to gb:M20867
T79369	T79369	yd74f06.r1 Homo sapiens cDNA clone 113987 5' similar to gb:M20867
T79799	T79799	yd74f05.s1 Homo sapiens cDNA clone 113985 3' similar to gb:M20867
T79800	T79800	yd74f06.s1 Homo sapiens cDNA clone 113987 3' similar to gb:M20867
T84419	T84419	yd45h12.r1 Homo sapiens cDNA clone 111239 5' similar to gb:M20867
T85275	T85275	yd45h12.s1 Homo sapiens cDNA clone 111239 3' similar to gb:M20867
T85958	T85958	yd62b05.r1 Homo sapiens cDNA clone 112785 5' similar to gb:M20867
T86978	T86978	yd62b05.s1 Homo sapiens cDNA clone 112785 3' similar to gb:M20867

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GENGENBANKDISK:[GENBANK]GB_IN.SEQCAT;87

Dmglud1	Z29062	D.melanogaster GLUD mRNA for glutamate dehydrogenase. 3/94 2,152bp
Dmglud2	Z28976	D.melanogaster GLUD gene for glutamate dehydrogenase exon 1. 3/94
Dmglud3	Z28977	D.melanogaster GLUD gene for glutamate dehydrogenase, 3' exon 4. 3
Dmglud4	Z28978	D.melanogaster GLUD gene for glutamate dehydrogenase, promoter reg
Dmglud5	Z29063	D.melanogaster GLUD gene for glutamate dehydrogenase, intron1/exor
Dmglud6	Z28979	D.melanogaster GLUD gene for glutamate dehydrogenase, exons 2 and
Dmglud7	Z28980	D.melanogaster GLUD gene for glutamate dehydrogenase, exons 3,4(2(
Gianadpdgh	M84604	Giardia lamblia NADP-dependent glutamate dehydrogenase (NADP-GDH)

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GENGENBANKDISK:[GENBANK]GB_PL.SEQCAT;87

Aku02505	U02505	Achlya klebsiana NAD-specific glutamate dehydrogenase gene, comple
Angdha	X16121	Aspergillus nidulans gdhA gene for NADP-linked glutamate dehydroge
Csgdhanc	X58831	C.sorokiniana gdhANC gene for NADP-specific glutamate dehydrogenas
Neuam	K01653	N.crassa am gene coding for NADP specific GDH (glutamate dehydroge
Neuamg	K01409	N.crassa am (NADP-specific glutamate dehydrogenase) gene & flanks.
Neunadspec	L20497	Neurospora crassa (clones pvg1 and pvg2) NAD-specific glutamate de
S64476	S64476	NADP-dependent glutamate dehydrogenase [Schwanniomyces occidentali
S66039	S66039	gdh=NAD(+)-specific glutamate dehydrogenase [Neurospora crassa, Ge
S66436	S66436	GDH2=NAD-linked glutamate dehydrogenase (5' region) [Saccharomyces
Scgdh2a	X72015	S.cerevisiae GDH2 gene for NAD-glutamate dehydrogenase. 10/93 4,83

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Yscgdhm         M11297 Yeast (S. cerevisiae) GDH1 gene encoding NADPH-dependent glutamate
Yscgdhn         M10590 Yeast (S.cerevisiae) GDH1 gene encoding NADPH-dependent glutamate

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GENGENBANKDISK:[GENBANK]GB_PR.SEQCAT;87

Hsgdh12a        X53144 Human GDH1 gene for glutamate dehydrogenase (exon 2). 9/90 81bp
Hsgdh13a        X53145 Human GDH1 gene for glutamate dehydrogenase (exon 3) (EC 1.4.1.3.)
Hsgdh14a        X53146 Human GDH1 gene for glutamate dehydrogenase (exon 4) (EC 1.4.1.3).
Hsgdh22b        X53147 Human GDH2 gene for glutamate dehydrogenase (exon 2) (EC 1.4.1.3).
Hsgdh23b        X53148 Human GDH2 gene for glutamate dehydrogenase (exon 3) (EC 1.4.1.3).
Hsgdh24b        X53149 Human GDH2 gene for glutamate dehydrogenase (exon 4) (EC 1.4.1.3).
Hsgdhr          X07674 Human mRNA for glutamate dehydrogenase (EC 1.4.1.3., GDH). 12/94 2
Hsglud1         X07769 Human mRNA for glutamate dehydrogenase (Glud-1, EC 1.4.1.3). 9/93
Hsglud11        X66300 H.sapiens GLUD1 gene for glutamate dehydrogenase (exon 1). 12/94 1
Hsglud110       X66308 H.sapiens GLUD1 gene for glutamate dehydrogenase (exon 10). 2/93 3
Hsglud111       X66309 H.sapiens GLUD1 gene for glutamate dehydrogenase (exon 11). 2/93 4
Hsglud112       X66311 H.sapiens GLUD1 gene for glutamate dehydrogenase (exon 12). 2/93 2
Hsglud113       X66312 H.sapiens GLUD1 gene for glutamate dehydrogenase (exon 13). 12/94
Hsglud12        X66301 H.sapiens GLUD1 gene for glutamate dehydrogenase (exon 2). 2/93 21
Hsglud13        X66302 H.sapiens GLUD1 gene for glutamate dehydrogenase (exon 3). 2/93 24
Hsglud14        X66303 H.sapiens GLUD1 gene for glutamate dehydrogenase (exon 4). 2/93 18
Hsglud15        X66304 H.sapiens GLUD1 gene for glutamate dehydrogenase (exon 5). 2/93 35
Hsglud16        X66305 H.sapiens GLUD1 gene for glutamate dehydrogenase (exon 6). 2/93 29
Hsglud17        X66306 H.sapiens GLUD1 gene for glutamate dehydrogenase (exons 7 and 8).
Hsglud19        X66307 H.sapiens GLUD1 gene for glutamate dehydrogenase (exon 9). 2/93 20
Hsgludp1        X66310 H.sapiens GLUDP1 gene for glutamate dehydrogenase. 2/93 3,271bp
Hsgludp3        X66316 H.sapiens GLUDP3 gene for glutamate dehydrogenase (exon 2). 6/94 2
Hsgludp5        X67491 H.sapiens gene for glutamate dehydrogenase. 7/93 2,679bp
Hsgtgdh         X69219 H.sapiens polymorphic repeat associated with glutamate dehydrogena
Hsu08997        U08997 Human glutamate dehydrogenase gene, complete cds. 8/94 3,272bp
Humgdh          J03248 Human liver glutamate dehydrogenase mRNA, complete cds. 11/94 2,99
Humgdha         M17697 Human glutamate dehydrogenase mRNA. 11/94 828bp
Humgdhax        M37154 Human glutamate dehydrogenase (GDH) mRNA, complete cds. 11/94 2,95
Humgdhl         M20867 Human glutamate dehydrogenase (GDH) mRNA, complete cds. 11/94 3,05
Humgdhr         M18377 Human glutamate dehydrogenase GDH) mRNA, complete cds. 11/94 2,97(
S60495          S60495 GLUD1=glutamate dehydrogenase (5' region) [human, Genomic, 802 nt]
S60496s1        S60496 GLUD1=glutamate dehydrogenase (exons 2,3 and 4) [human, Genomic, 2
S60496s2        S60497 GLUD1=glutamate dehydrogenase (exons 2,3 and 4) [human, Genomic, 1
S60496s3        S60498 GLUD1=glutamate dehydrogenase (exons 2,3 and 4) [human, Genomic, 1
S60499          S60499 GLUDP4=glutamate dehydrogenase [human, Genomic, 2087 nt]. 7/93 2,(

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GENGENBANKDISK:[GENBANK]GB_RO.SEQCAT;87

Mmglud          X57024 Murine GLUD mRNA for glutamate dehydrogenase. 8/91 2,942bp
Rngdr           X14044 Rat mRNA for glutamate dehydrogenase (EC 1.4.1.3). 9/93 2,874bp
Rngdr1          X14223 Rat mRNA for glutamate dehydrogenase (EC 1.4.1.3.). 9/93 2,834bp
Rngludeha       X64365 R.norvegicus gene for glutamate dehydrogenase. 8/93 2,168bp

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GENEMBLDISK:[EMBL]EM_CU.SEQCAT;2

Aspargc         X65511 Anabaena sp. argC gene for N-acetylglutamate semialdehyde dehydroc
Hsgdhr          X07674 Human mRNA for glutamate dehydrogenase (EC 1.4.1.3., GDH). 12/94 2
Hsglud11        X66300 H.sapiens GLUD1 gene for glutamate dehydrogenase (exon 1). 12/94 1
Hsglud113       X66312 H.sapiens GLUD1 gene for glutamate dehydrogenase (exon 13). 12/94
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